Arizona Department of Revenue



2D Barcode Developer's Manual Pub AZ-100

TAX YEAR 2006

Version: FINAL

Issued: September 18, 2006

SECTION 1 – CHANGES AND REMINDERS FOR TAX YEAR 2006

Changes or new additions to specifications and layouts are **bold** text. Record layouts, available in Publication AZ-100-A, contain a Change column which indicates changes from TY2005 to TY2006.

- 1. Record Layout Field Numbering Field numbering for record layouts (Arizona Publication AZ-100-A) now begin with "1" instead of "0".
- Application to Participate Submission of the Application to Participate is required by all developers prior to testing. The application can be found in the Appendix of this publication. See Section 3 for further details.
- 3. <u>Standard Deduction</u> the standard deduction for tax year 2006 are: Single, Married Filing Separate = **\$4,247** Head of Household and Married Filing Joint = **\$8,494**
- 4. <u>Single Extension Period</u> Arizona now has a single 6-month extension to mirror the federal extension. The extension is valid until **October 15**, **2007**.
- 5. <u>National Guard Relief Fund</u> Check box has been added for voluntary gift to National Guard Relief Fund.
- 6. <u>Subtractions from Arizona Gross Income</u> Subtractions from Arizona Gross Income now includes National Guard and Reservists Tax Exempt Active Duty Pay.
- 7. <u>NSF Fees</u> The \$25 NSF fee for NSF checks now also applies to dishonored electronic funds transfers, automatic clearing house debits, and direct debits.
- 8. Personal Exemption Allocation Election (Form 202)
 The Personal Exemption Allocation Election must be present when filing status 3
 (Married Filing Separate) or 4 (Head of Household). And, when more than ½ of the total exemption is claimed, refer to 140 instructions for further details.
- 9. <u>Credit Forms Supported for 2D Barcode</u>:
 - 310 Credit for Solar Energy Devices
 - 321 Credit for Contributions to Charities
 - 322 Credit for Contributions Made to Public Schools
 - 323 Credit for Contributions School Tuition Organizations
- 10. <u>Handheld Scanners</u> Arizona uses handheld scanners to scan incoming 2D barcode returns. Experience has shown that the scanners perform best when the barcode symbols are a 2:1 size ratio.

11. Reminders:

- Instruct user to reprint barcode page if data changes after original printing of a form.
- Do not zero fill numeric fields.
- Do not use hyphens in SSN, FEINs, etc.
- Use UPPERCASE for all alpha characters.
- Do not punctuate suffixes, middle initials, or addresses.

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12. <u>Holiday Closures</u> - The Arizona Department of Revenue is closed on the following holidays:

Late 2006	Early 2007	Late 2007	
Monday, September 4, 2006	Monday, January 1, 2007	Monday, September 3, 2007	
Monday, October 9, 2006	Monday, January 15, 2007	Wednesday, October 10, 2007	
Friday, November 10, 2006	Monday, February 19, 2007	Monday, November 12, 2007	
Thursday, November 23, 2006	Monday, May 28, 2007	Thursday, November 29, 2007	
Monday, December 25, 2006	Wednesday, July 4, 2007	Tuesday, December 25, 2007	

SECTION 2 - INTRODUCTION

This publication provides information necessary for the development of software intended for use by businesses and individuals in filing Arizona income tax returns with 2D Barcodes. If you have any questions, please contact the Arizona Department of Revenue personnel listed below. Please refer to our web site www.azdor.gov for 2D Barcode updates.

You are invited to contact us with any question or comment you have regarding our electronic filing program.

Alven Brite, 2D Barcode Project Manager @ 602 716-6912 Donna Muccilli, E-File Administrator @ 602 716-6513

Fax: 602 716-7997

Email: 2DBarCode@azdor.gov

Mailing Address:

Arizona Department of Revenue Office of Electronic Filing, Room 100 1600 West Monroe Street Phoenix, Arizona 85007-2650

Web Address: www.azdor.gov

The Arizona Department of Revenue's website may be accessed for 2D Barcode updates including tax forms, form instructions and additional information covering a broad range of tax-related topics.

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SECTION 3 - PROGRAM PARTICIPATION

Any software vendor who is considering using 2D Barcode needs to be approved by the Arizona Department of Revenue for form design. The form design is the same regardless of whether or not the 2D Barcode is used. To participate in the 2D Barcode program, please send written intent via e-mail to 2DBarCode@azdor.gov.

Once the Arizona Department of Revenue receives written notification of intent to participate, testing may begin. Test scenarios will be sent to you via e-mail after you notify us of your intent to participate. Test scenarios will also be available on the Arizona Department of Revenue website (www.azdor.gov).

Approval must be received from Arizona Department of Revenue on testing phase prior to submitting live forms.

When reviewing forms for approval, the department is verifying the form can be processed through its mainframe processing systems. The department does not review or approve the logic of specific software programs, nor confirm the calculations entered on the forms output from these programs. The accuracy of the program remains the responsibility of the software developer. The accuracy of the information on returns prepared using a computer program remains the responsibility of the taxpayer.

Approved software vendors will be posted on the department's web site at http://www.azdor.gov/Eservice/developer_2d.asp.

Important Notice

Approval of software for 2D Barcode <u>does not</u> include approval of any form developed/produced for hardcopy submission to the Arizona Department of Revenue.

The External Services and Special Projects Division of the Department of Revenue must approve all Arizona tax forms.

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Address your inquiries and requests for tax form approval to:

Address: Forms Approval - Room 810

Arizona Department of Revenue

1600 West Monroe Phoenix, AZ 85007

Contacts: Bob Williams

Voice: 602.716.6801

Email: bwilliams@azdor.gov

Sharyn Zamora Voice: 602.716.6798 Email: szamora@azdor.gov

Fax Number: 602.716.7995

SECTION 4 - SOFTWARE REQUIREMENTS

Any software developed for the 2D Barcode program must meet state requirements. The following is to complement IRS and Arizona publications and is in no way intended to alter or amend their requirements.

- 1. Comply with all state requirements specified in the following publications:
 - Arizona Software Developers Manual AZ-100 for 2D Barcode for Tax Year 2006.
 - Arizona Publication AZ-100-A File Specifications and Layout.
- 2. Adhere to all state procedures, requirements and specifications.
- 3. Successfully complete all testing.
- 4. Develop preparation software in accordance with statutory requirements and Arizona Department of Revenue return preparation instructions.
- 5. Provide accurate Arizona income tax returns with printed 2D Barcode in correct format.
- 6. Place 2D Barcode in the blank rectangle to the left of lines 12 thru 24.
- 7. 2D Barcode function is a default setting when electronic filing is also offered in the program.
- 8. Print four digit NACTP vendor code on the bottom of the form to the right of the ADOR form number. (For identification purposes only).
- 9. Provide data validation, verification and error detection to prevent transmission of incomplete, inaccurate or invalid return information.
- 10. Developed software is not to support 2D Barcode of any form not approved for 2D Barcode by the Arizona Department of Revenue.

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SECTION 5 - RETURNS AVAILABLE FOR 2D BARCODE

Both refund and payment due returns may be filed with 2D Barcoding. The primary tax returns supporting 2D Barcode for tax year 2006 are:

140 Resident Personal Income Tax Return

140A Resident Personal Income Tax Return (Short Form)

140NR Non-Resident Personal Income Tax Return

140PY Part-Year Personal Income Tax Return

140PTC Property Tax Refund (Credit) Claim

Supporting forms available for 2D Barcode consist of the following types. These forms MUST be included in the 2D Barcode for the 140 form when required/utilized for return preparation and filing.

AZ Schedule A (2D) Arizona Copy of Federal Schedule A

140 Schedule A Arizona Itemized Deduction Adjustments

140PY A(PY) - Itemized Deductions Part-Year Resident

140PY A(PYN) - Itemized Deductions for Part-Year Resident with Nonresident Income

140NR A(NR) - Itemized Deductions for Nonresidents

Selected 300 Series Tax Credit Forms:

310 - Credit for Solar Energy Devices

321 - Credit for Contributions to Charities

322 - Credit for Contributions Made to Public Schools

323 - Credit for Contributions School Tuition Organizations

Forms identifying tax withheld (i.e. W-2, W-2G, 1099R, and 1099G forms) are to be included in the 2D Barcode when an amount for state withholding exists.

All other supporting Arizona forms are not to be included in the 2D Barcode. These forms, plus the forms included in the 2D Barcode, must be printed, attached to the return, and sent to the Arizona Department of Revenue. Refer to Arizona Publication AZ-100-A, *Arizona Department of Revenue 2D Barcode File Specifications and Record Layout*, for state record information.

The Arizona Department of Revenue Forms 140, 140A, 140NR, 140PY, and 140PTC (software vendor versions) and instructions are sent to all NACTP members via e-mail. If you have not received these forms, you may request them through our 2D Barcode e-mail address 2DBarCode@azdor.gov.

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SECTION 6 - GENERAL INFORMATION / ERRORS TO AVOID

Barcode:

- Barcode width should be 3 5/16". The width shall not be wider than 3 5/16". The size
 of the barcode vertically will vary according to the information contained in the
 barcode.
- Arizona uses handheld scanners to scan incoming 2D barcode returns. Experience
 has shown that the scanners perform best when the barcode symbols are a 2:1 size
 ratio
- DO NOT stretch the barcode.

Fields:

For blank fields, use a carriage return <CR>.

Check boxes:

o An X indicates Yes, nothing (unchecked) is Null.

Social Security Numbers/FEIN/TIN:

Do not use hyphens.

Numeric:

- Do not zero fill numeric fields.
- Use whole-dollar amounts only.
- o Commas are not permitted in numeric fields.
- Round dollar amounts from W-2s, 1099R, etc before entering amount on tax form.

Alpha:

- o Use UPPERCASE for all alpha characters.
- o Do not punctuate suffixes Jr, Sr, I, II, III, etc.
- Do not punctuate middle initial. Example: Mary J. Doe (incorrect) MARY J DOE (correct).
- Do not place a space in last name. Example: MC DONALD(incorrect)
 MCDONALD (correct), remove space to ensure accurate processing.
- Hyphens are acceptable in last name fields.
- No extra spaces or punctuation should be in data. Example: "100 East Main, Apt 500B" should be keyed as "100 EAST MAIN APT 500B".

Important Post-Printing Reminders:

- Instruct user to reprint barcode page if data changes after original printing of a form.
- Do not cover information with pre-printed label.

The intended use of the Description Column is to cross reference the barcode field number, form line number, and form line wording. The description may not be exact due to limitations of space. Refer to the tax form and instructions for the exact line wording.

Trailer: The last field in the barcode data stream is the trailer. The trailer is used to indicate the end of data has been reached. A static string of "*EOD*" is used as the trailer value. If a trailer is not found, this indicates a data overflow condition has occurred.

Header Information: There is information generic to all barcodes that should be placed first in the barcode data stream. The first six fields in the barcode comprise the official header. The fields in the official header are variable length and therefore can contain as much or as little data as is necessary.

This information must be consistent among all barcodes and is defined below. (Note: The symbol <CR> is used to represent a single carriage return character.)

Header Version Number: will be incremented each time the standards group alters the physical structure of the barcodes that were created using multiple header formats. This value is static for all barcodes and is currently T1.

Developer Code: A four-digit code used to identify the Software Developer whose application produced the barcode. The purpose of this field is to allow forms to be traced to the vendor producing them. Software Developer codes are assigned through the NACTP.

Jurisdiction: An alphanumeric identifier indicating the taxing jurisdiction. Use the US Postal Service's official state abbreviations.

Description: An alphanumeric identifier used to describe the form being processed. The identifier can be used to route the barcode information to the correct system for further processing.

Specification Version: A number that identifies the version of the specifications used to produce the form barcode. These specifications are provided by the jurisdiction processing the form and describe the data layout in the barcode. Draft versions of the specifications are not assigned version numbers. The final version shall be "0", revision thereafter will increase numerically.

Software/Form Version: A vendor defined version number that reflects the software and form revision used to produce the barcode.

Example:

Header Version Number "T1"
Developer Code: "9999"
Jurisdiction: "AZ"
Description: "AZ140"
Specification Version: "0"
Software/Form Version: "1"

Raw Header:

T1<CR>9999<CR>AZ<CR>AZ140<CR>0<CR>1<CR>

SECTION 7 - MAILING ADDRESSES

2D returns are presorted by mailing address to allow quicker processing.

Not sending a payment or expecting a REFUND:
 Arizona Department of Revenue
 PO Box 29205
 Phoenix, AZ 85038-9205

Sending a payment:

Arizona Department of Revenue PO Box 29204 Phoenix, AZ 85038-9204

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SECTION 8 - TESTING

Testing of software developed for 2D Barcode is mandatory. All software must be tested using the Arizona scenarios. Scenarios require the appropriate forms to be created for 2D Barcode testing. Test scenarios are e-mailed to those who submit their notice of intent to participate.

It is not necessary to submit test returns for forms not supported by the software application. However, to maximize the benefits of alternative filings, the Arizona Department of Revenue encourages software developers to include all available 2D barcode forms into the program application.

The Arizona Department of Revenue will give formal confirmation when software has successfully completed testing. Only approved software may be released and distributed by the developer.

Any developer wishing to conduct testing in addition to that supplied and required by the Arizona Department of Revenue must obtain approval to do so prior to test submission.

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SECTION 9 - ERROR DETECTION and NOTIFICATION

The Arizona Department of Revenue will immediately notify the developer when it detects a software problem or error. Likewise, software developers are to immediately notify the department of problems or errors associated with the software or its use. Such notifications are to be made by e-mailing the 2D Barcode staff office at 2DBarCode@azdor.gov.

When a software error is identified, it is the responsibility of the software developer to immediately notify their user population, correct the problem and expeditiously distribute the appropriate software revision (correction) to their clients. Additionally, the Arizona Department of Revenue is to receive immediate notification of all software errors and problems. The department is to be advised when corrections are made and supplied with the related software version number and release date. The department is to be kept advised of all software versions (identification number and distribution date).

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consider it done

Tax Year 2006 Arizona - Application to Participate/Letter of Intent

Software developers must provided the information requested below before transmissions will be accepted for testing. Receipt and acceptance of the required documentation identifies the developer as interested in participating in the electronic filing programs for Arizona. It does not represent acceptance of any software nor does it confirm the accuracy of any software developed.

	Company Name:							
2.	Product Names:							
3.	Product Types: ☐ Professional ☐ Retail (Individual User) ☐ On-line (Individual User) ☐ 2D Barcode							
4.	Test ETIN(s)							
5.	Production ETIN(s)							
6.	Developer ID (e-File)							
7.	Vendor ID (2D Barcode)							
8.	Company Address:							
9.	e-File Programming Contact: Phone E-mail:							
10. Operations (Ack) Contact:								
	Phone E-mail:							
11	11. 2D Barcode Contact: E-mail:							
12								
12	Profession		rms you intend to s Retail (Indiv		On-line (Indi	vidual)	2D Barcode	
	140 140 Sch A 140A 140EZ 140NR 140NR A(NR) 140PY 140PY A(PY) 140PY A(PYN) 131	□ 310 □ 312 □ 315 □ 319 □ 320 □ 321 □ 322 □ 323 □ 325 □ 328	☐ 140 ☐ 140 Sch A ☐ 140A ☐ 140EZ ☐ 140NR ☐ 140NR A(NR) ☐ 140PY ☐ 140PY A(PY) ☐ 140PY A(PYN) ☐ 131	□ 310 □ 312 □ 315 □ 319 □ 320 □ 321 □ 322 □ 323 □ 325 □ 328	☐ 140 ☐ 140 Sch A ☐ 140A ☐ 140EZ ☐ 140NR ☐ 140NR A(NR) ☐ 140PY ☐ 140PY A(PY) ☐ 140PY A(PYN) ☐ 131	□ 310 □ 312 □ 315 □ 319 □ 320 □ 321 □ 322 □ 323 □ 325 □ 328	☐ 140 ☐ 140A ☐ 140NR ☐ 140PY ☐ 140PTC ☐ 310 ☐ 321 ☐ 322 ☐ 323	